

Title: IMAGING SYSTEM, METHODOLOGY, AND APPLICATIONS....
Inventor: Howard Fein, et al.
Serial No. 10/616,829
Docket No. PRP.111US 136 HOLOGRPAHIC OPTICAL ELEMENT K-SPACE FREQUENCIES FIBER OPTIC TAPER OR IMAGE CONDUIT K-SPACE FILTER MULTIPLE LENS CONFIGURATION **DIFFRACTION LIMITED** SPOT_120 ASPHERICAL LENS

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JUL 2 8 2003

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Howard Fein, et al.

Serial No.

10/616,829

Docket No.

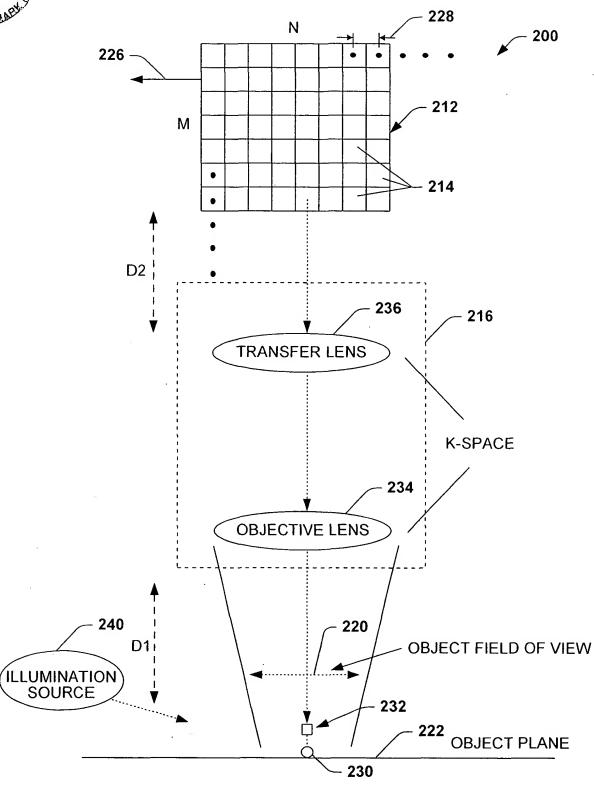
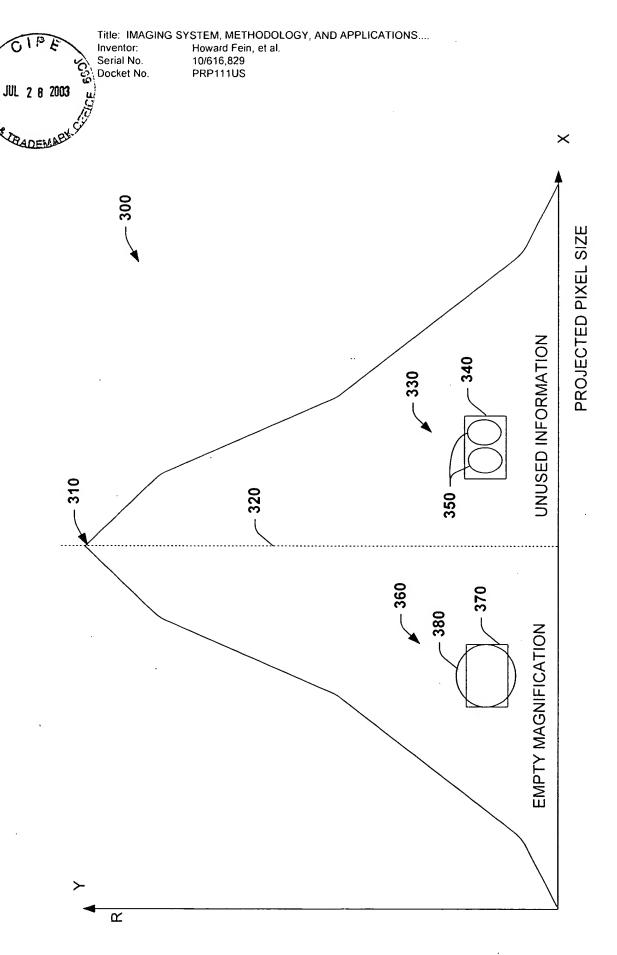


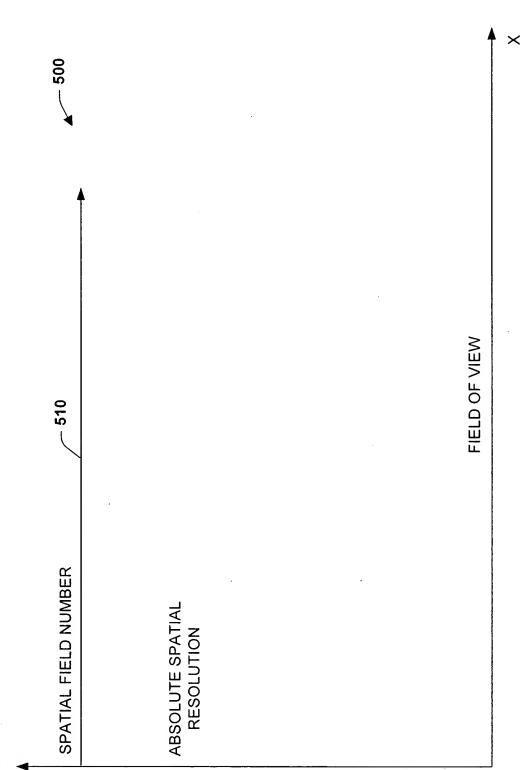
Fig. 3



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Fig. 4

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Inventor: Howard Fein, et al.
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Docket No. PRP111US JUL 2 8 2003 × ABSOLUTE SPATIAL RESOLUTION (MICRONS OF SEPARATION) **MODULATION** % % 0 Title: IMAGING SYSTEM, METHODOLOGY, AND APPLICATIONS....
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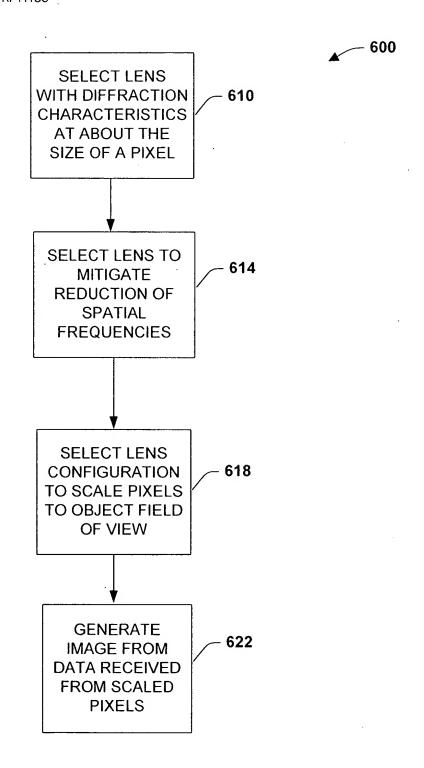


Fig. 7

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Inventor: Serial No. Howard Fein, et al. 10/616,829

Docket No.

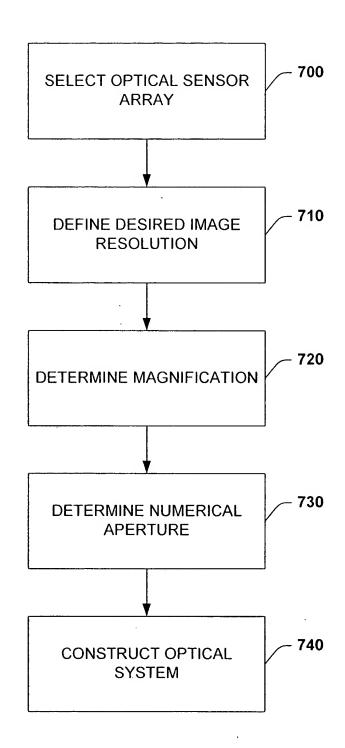


Fig. 8

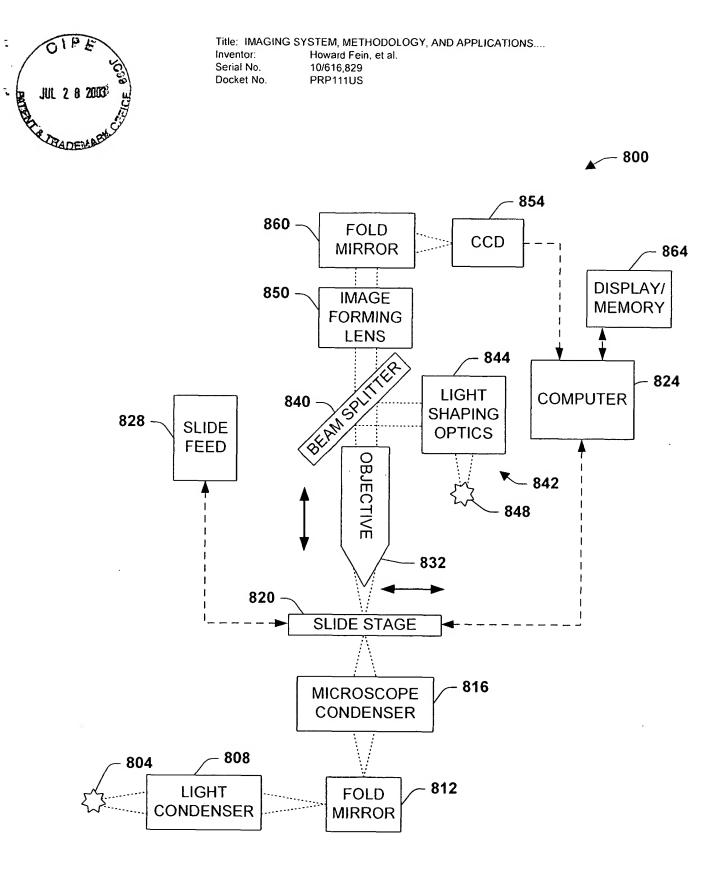


Fig. 9

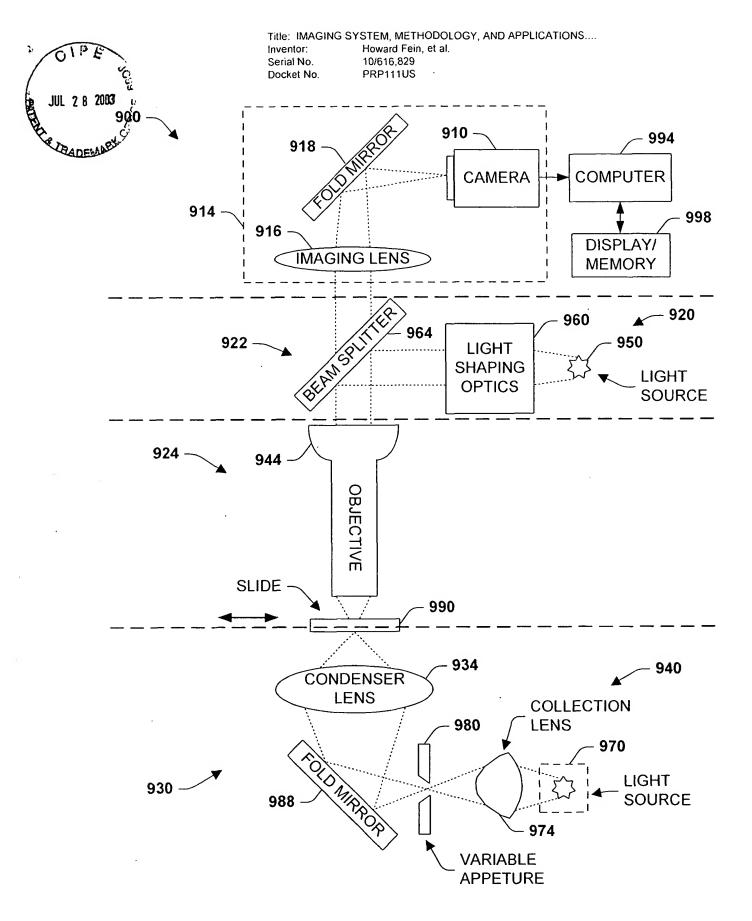


Fig. 10

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Inventor: Serial No.

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- 1000 FOLD MIRROR/OR BEAM SPLITTER FOR IMAGE IMAGING DEVICE: CCD, DIRECTION CHANGE CMOS, CID, ETC. IF DESIRED IMAGE TRANSFER LENS 1040 IMAGE SENSOR INFINITY SPACE **FOCUS MOUNT OBJECTIVE** MOVEMENT -- MANUAL LENS MOUNT OR SERVO-MOTOR STAGE --ACTUATED MOVEABLE ON OPTICAL AXIS ACHROMATIC OBJECTIVE LENS SAMPLE: TRANSMISSIVE EXAMPLE SHOWN = AT SYSTEM FOCAL PLANE 1020 SPECIAL DIFFRACTIVE OPTICAL IN SYSTEM FOCAL SPACE LIGHT SHAPING DIFFUSER - 1010 ILLUMINATION MODULE: SOLID-STATE SOURCES AVAILABLE FOR VARIOUS SUBSTAGE LIGHTING CONTROL AND WAVELENGTHS ADJUSTMENT -- KOHLER EXAMPLE SHOWN

Fig. 11

OTHER CONFGURATIONS POSSIBLE

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IN SYSTEM FOCAL SPACE

10/616,829 PRP111US

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SYSTEM OPTICAL SCHEMATIC SHOWING CONFIGURATION FOR EPI-ILLUMINATION WITH OPAQUE (OR TRANSMISSIVE) SAMPLES

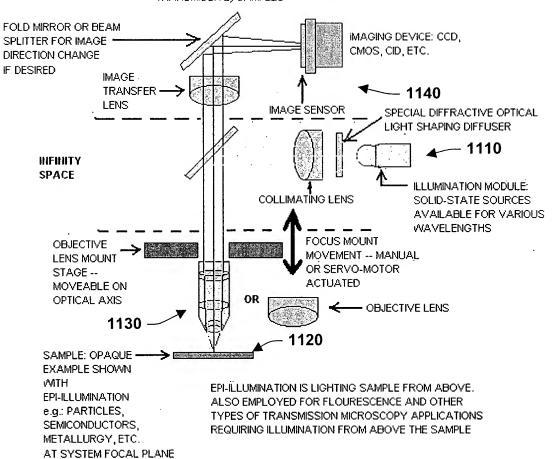


Fig. 12

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Title: IMAGING SYSTEM, METHODOLOGY, AND APPLICATIONS....

Inventor: H Serial No. 1

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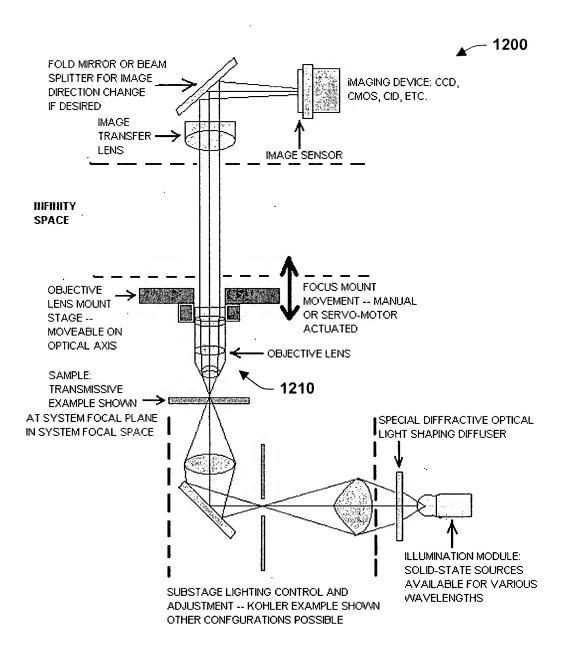


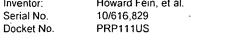
Fig. 13

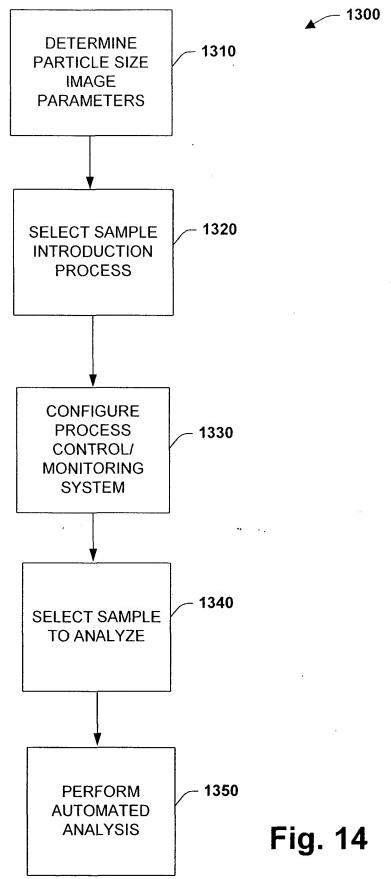
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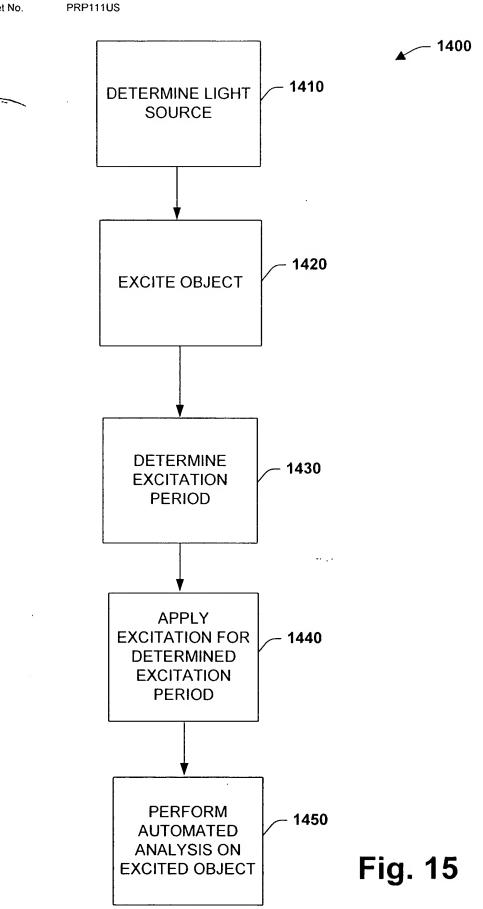


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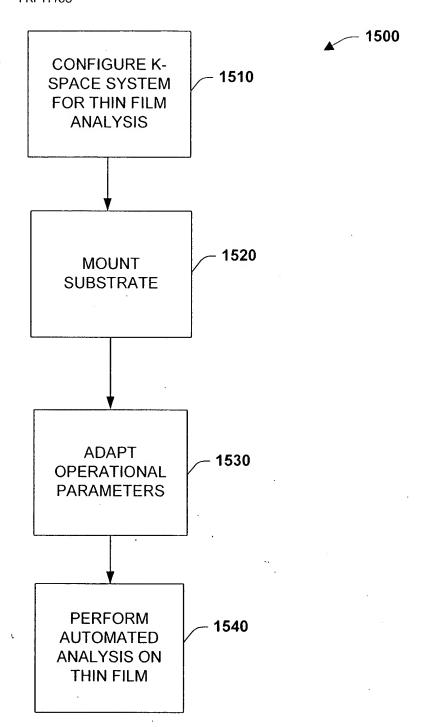


Fig. 16

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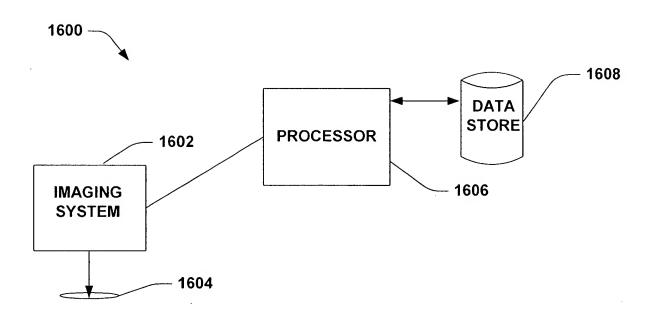


Fig. 17

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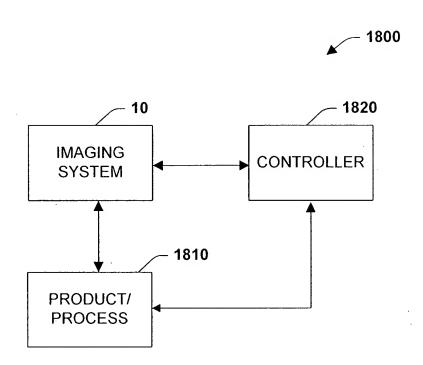
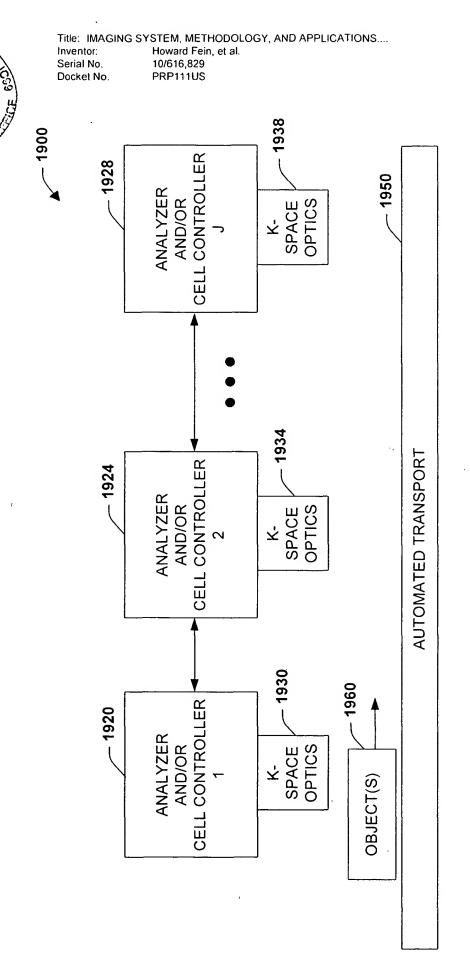
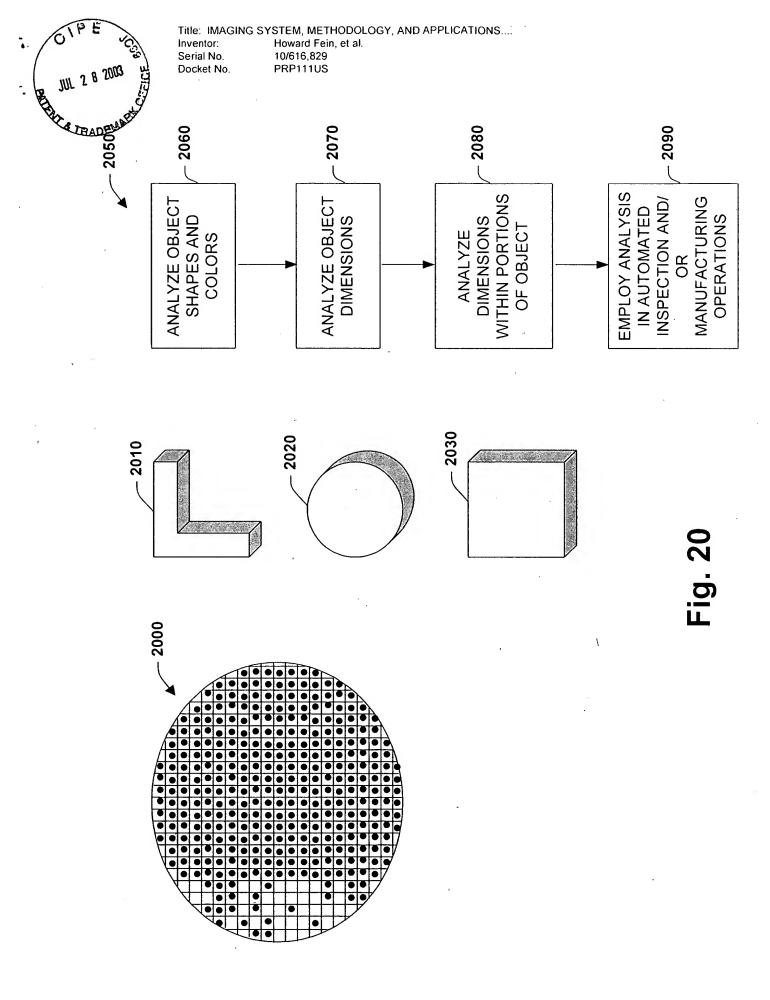


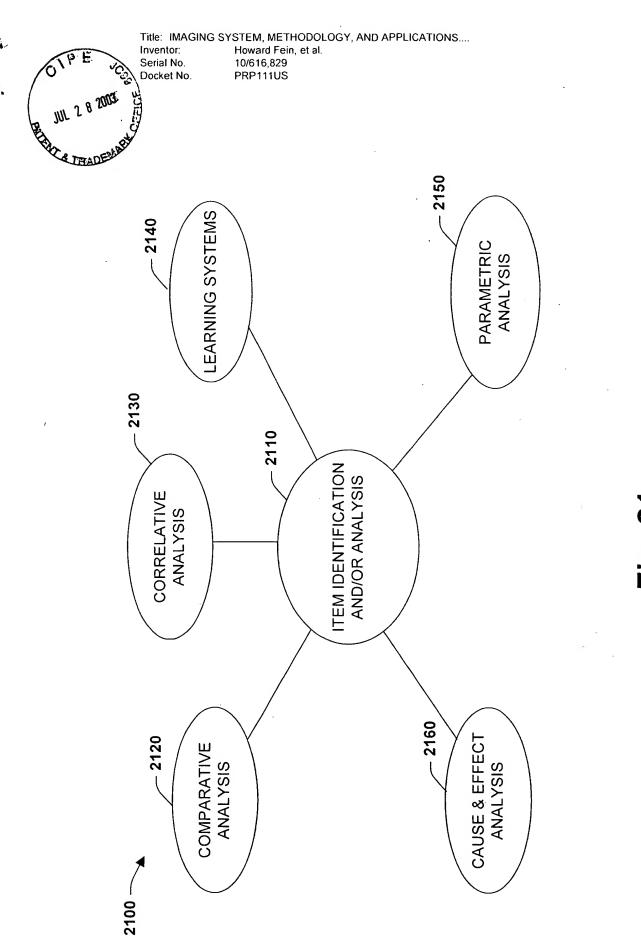
Fig. 18



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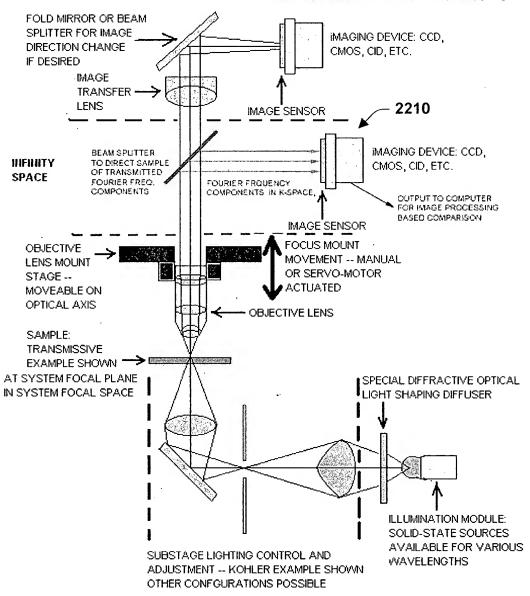
Inventor

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2200

CONFIGURATION FOR DIRECT OPTICAL CORRELATION OF FOURIER FREQUENCY COMPONENTS FOR COMPARATIVE IMAGE PROCESSING



CONFIGURATION #1

Fig. 22



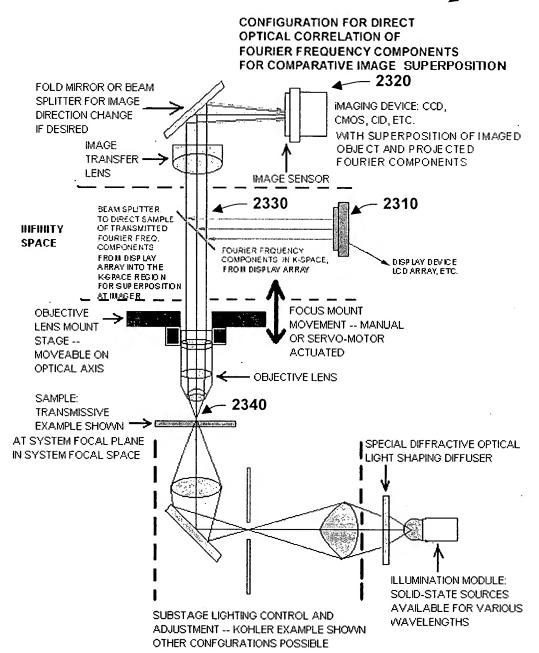
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CONFIGURATION # 2

Fig. 23



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MEDIUM/SAMPLE INTRODUCTION VOLUME

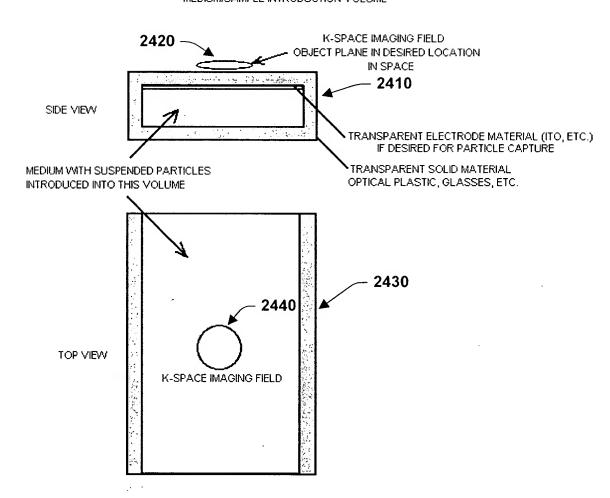


Fig. 24